

MATERIAL SAFETY DATA SHEET

1" Metal Washer with 2" Nail	Product: Carbon & HSLA * Steel
Demand Products, Inc. 1055 Nine North Drive Alpharetta, Georgia 30004	Phone Number: (800) 746-5659

NOTE: THE FOLLOWING ELEMENTAL BREAKDOWN IDENTIFIES ALL POTENTIALLY HAZARDOUS COMPONENTS IN EXCESS OF 1%, OR WHICH MAY PRESENT A POTENTIAL EXPOSURE HAZARD AT LESS THAN 1%. ELEMENTS CONFIRMED OR SUSPECTED OF CAUSING CANCER ARE LISTED IF PRESENT IN EXCESS OF 0.1%.

CONCENTRATIONS REPRESENT A MAXIMUM FOR ALL THE GRADES WITHIN A CATEGORY OF STEEL PRODUCTS AND MUST NOT BE INTERPRETED AS A SPECIFICATION FOR A PARTICULAR GRADE.

ELEMENT	CATEGORY – CARBON & HSLA *STEEL (% MAXIMUM)	PERMISSIBLE EXPOSURE LIMIT (Mg/M ³) (AS FUME)	
		P.E.L. (OSHA)	T.L.V. (A.C.O.I.H.)
Iron	> 99.00	10	10
Manganese	1.81	5	1
Nickel	0.50	1	1
Chromium	0.60	1	0.5
Copper	0.60	0.1	0.2
Vanadium	0.15	0.1	0.05

COATING DESCRIPTION

Zinc, Chemically passivated with a chromium compound and/or oil.
All galvanized nails

HIGH STRENGTH LOW ALLOY STEEL

HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

INHALATION - ACUTE EFFECTS

High concentrations of fume may cause respiratory irritation.

- CHRONIC EFFECTS

Prolonged exposure to fume may cause respiratory difficulty.

SKIN CONTACT

Dermatitis may result from prolonged or repeated contact with coating.

SKIN ABSORPTION

N/A

EYE CONTACT

Irritation may result from contact with coating.

INGESTION

N/A

EMERGENCY AND FIRST AID PROCEDURES

EYE

Flush with plenty of water.

SKIN

Wash contaminated area with soap and water.

INHALATION

Move to fresh air if fume exposure causes irritation.

INGESTION

N/A

REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

N/A

REACTIVITY

May react with mineral acids to release hydrogen, an explosive gas.

HAZARDOUS DECOMPOSITION PRODUCTS

N/A

SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Torch cutting and welding should be performed with adequate ventilation.

RESPIRATORY PROTECTION

NIOSH approved fume respirator if torch cutting or welding in a poorly ventilated area.

EYE PROTECTION

Required for grinding, welding, etc.

PROTECTIVE GLOVES

Recommended if prolonged contact is required.

OTHER CLOTHING AND EQUIPMENT

N/A

SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

Chromium and nickel have been included on IARC's list of carcinogens. Effective fume control is necessary.

OTHER HANDLING AND STORAGE PRECAUTIONS

Barrier cream may be utilized when handling chromium treated material.

PREPARED BY:

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DATE:

November 1985

POSITION:

Industrial Hygienist